

Minutes from the February 20, 2004 MSFC PMC
Prepared by VS10/Rich Gladwin

DD01/Rex Geveden chaired the meeting. Mr. Gladwin reviewed the agenda. The agenda included: (1) Status of Open Action Items, (2) MSFC Program/Project Health Status, (3) (4) ECLSS Request for Change in Project Baseline, (5) In-Space Propulsion (ISP) Request for Change in Project Baseline.

Mr. Gladwin reviewed the open action items. Action 1 from the 08/26/03 PMC and Actions 1 and 2 from the 01/21/04 PMC were closed. Mr. Geveden asked that the action assigned to Code R projects to have compliant project plans approved by the Center Director be revised to not include projects being terminated. Mr. Geveden asked that "TBD's" be replaced with the appropriate due dates for each project listed in the action. Mr. Singer indicated that NGLT projects would be undergoing a relevancy review in the next 30 days and that some NGLT projects might be terminated. Due dates will be provided for NGLT projects after the relevancy review is completed. Projects that are terminated will be expected to brief the PMC on how the termination process will be accomplished.

Mr. Gladwin presented the summary of program and project health status. Seven projects had reported Red for January 2004 performance including ET, ET Friction Stir Welding, Advanced Health Management System Phase I, Solid Rocket Booster, ECLSS, In-Space Propulsion, and X-37. Mr. Gladwin noted that 7 red projects was a 12 month high. ET and SRB had recently received a new baseline RTF schedule from the Shuttle Program and will be able to report green in upcoming months.

UP/Bob Hughes presented an explanation of the DART project cost status. The project has obligated project reserves to reduce identified threats. Based on the Agency definitions for stoplight health status, the project should be reporting "yellow" for the cost area. The project agreed to start reporting yellow in accordance with the Agency definitions. The DART action to provide an explanation of cost status was closed.

SD/Al English presented an explanation of the EUSO project technical status. Mr. English was asked if the space exploration initiative had any impact on the EUSO project. Mr. English stated that because the initiative calls for retiring the shuttle by 2010 and only 25 flights are planned, this could mean that EUSO may not be launched by Shuttle. Mr. Bilbro asked if EUSO's optics problem was affecting the ESA decision to give ATP for Phase B. Mr. English stated that the optics problem was not driving the ESA decision. Mr. Bilbro asked for the probability of successfully manufacturing the micro-grated structure. Mr. English stated that the EUSO project was investigating two different methods for manufacturing the micro-grated structure but that there is no available estimate of the probability of either method performing as well as assumed in the EUSO budget for meeting the optics requirement. EUSO is looking to other components of the budget to provide the desired improvement in the optics performance, e.g. tighter focus and reduced surface roughness. Also the optical requirement not being met is only a portion of the overall requirement that is distributed among three subsystems. So there is a chance that a reallocation of the overall requirement could be done to provide some relief

to the optical system in the event that none of the suggested improvements work. The EUSO action to provide an explanation of technical status was closed.

MP/Jeff Spencer presented an explanation of the Advanced Health Management System (AHMS) Phase 1 schedule issue, which was reported as “red” in January 2004. Phase 1 “Ready for First Flight” milestone baseline is October 2004. The current working schedule indicates slip to January 2005. The project is pursuing opportunities to recover schedule position including reduction of hot-fire certification requirements and accelerating the test rate at SSC. Axel Roth cautioned the project to obtain a full technical review from all parties, including the crew office prior to reducing testing certification requirements. Mr. Spencer indicated that any changes would be fully reviewed and approved by the appropriate organizations.

FD/Bob Bagdigian presented a request for change to the approved project baseline for the ECLSS project. The delivery will slip from April 7, 2005 to November 15, 2006. The total project cost will raise from \$291M to \$313M. TD/Mr. Singer asked why budget numbers were not to full cost accounting standards. Mr. Bagdigian responded that JSC is not yet working to full cost accounting. Mr. Geveden asked what system is in the critical path. Mr. Bagdigian replied that the UPA is still in the critical path. Mr. Singer asked if the hardware was being qualified by test for the expected design life. Mr. Bagdigian replied that components like pumps are cycled for the expected duty cycle. Mr. Geveden asked if unforeseen problems or poor scheduling was the root cause for the ECLSS schedule slips. Mr. Bagdigian responded that both were at fault. Mr. Bilbro asked if delays at Hamilton Standard were technical in nature. Mr. Bagdigian replied that Hamilton Standard has had technical problems as well as efficiency problems. Mr. Bagdigian indicated that most technical problems have been mechanical. Mr. Roth recommended that the ECLSS project consult with the GP-B Program for help with including risk threats into the project schedule. Mr. Geveden asked how the sum of expected schedule risk value compared to the available schedule reserve. Mr. Bagdigian indicated that the schedule risk is accounted for in the budget threat list, which includes potential schedule slips. Mr. Bilbro asked why additional civil servants over the current allocation weren’t added to help recover schedule. Mr. Bagdigian indicated that additional help was needed with stress analysis, quality inspectors, shop technicians, and with leak testing. These problem areas were addressed using JSC civil servants and additional contractor workforce. Mr. Geveden asked if the FY05 workforce had been approved. Mr. Bagdigian indicated that informal understandings were made. Mr. Geveden asked what aspects of the presentation were to be approved by the MSFC PMC and which need to be approved by the Governing PMC. A GPMC was not identified for the ECLSS project. The MSFC PMC is responsible for approving the MSFC workforce and MSFC facilities requirements and for providing recommendations for the schedule, budget, technical scope, etc.. The GPMC is responsible for approving the technical scope, budget and schedule. Mr. Geveden asked that the PMC secretary make sure that future presentation clearly state the approval responsibilities for the MSFC PMC and the GPMC. The MSFC PMC recommended approval for the ECLSS re-baseline as presented.

TD/Les Johnson presented a request for change to the approved project baseline for the In-Space Propulsion (ISP) Technology project. The ISP re-baseline delays ISP second generation products and decreases the FY04 budget from \$64M to \$58M. Mr. Bilbro

asked if the second generation tasks were being descoped. Mr. Johnson replied that they were not descoped, but that second generation tasks were being delayed. Mr. Geveden complimented the ISPO project on the clear presentation charts and advised that the ISP charts be used as a go-by for future PMC presentations. The MSFC PMC recommended approval for the ISP rebaseline as presented.

Following the meeting, UP/Robert Champion discussed the status of the Boeing OSP System Design project. The project was ready to present a request to start the implementation phase and complete a PDR. However, the project is in the process of being terminated. Mr. Geveden approved the implementation request out-of-board so that the project can provide historical evidence of its accomplishments. The PMC out-of-board decision will be documented by the signing of the project plan by the Center Director.

No new actions were assigned.

Attendance for MSFC PMC – February 20, 2004

<u>Council Members</u>	<u>Organization</u>
Rex Geveden	DD01
Axel Roth	DE01
Jim Bilbro	DA01
Gerry Flanagan	VS10
Bill Simpson (for Sue Foster)	RS01
Steve Pearson (for Bill Kilpatrick)	ED01
Scott Croomes (for Tony Lavoie)	FD01
Tom Stinson (for Ann Whitaker)	SD01
Chris Singer	TD01
Ruth Harrison (for Mike Rudolphi)	MP01
Jan Davis	QS01
Elaine Hamner (for Steve Beale)	PS01
James McGroary (for Bil Hicks)	LS01
Danny Johnson	ED40

<u>Others in Attendance</u>	<u>Organization</u>
Rich Gladwin (PMC Secretary)	VS10
Julie Sanchez	FD01
Dick Berenek	SD21
Jeff Spencer	MP21
Mike VanHooser	SD21
Al English	SD21
Sonny Mitchell	SD21
Roy Young	SD21
John Brunson	VS10
Glen Ritter	UP20
Carey Thompson	UP20
Zena Hester	UP20
Bob Hughes	UP01
Bruce Anderson	AD01
Alberto Duarte	TD02
Robert Champion	UP20

Bart Graham
Larry Hill
Ricky Power
Matt Homan
Les Johnson

TD07
SD21
TS11
SAIC
TD05